

**CHANGE**

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

6850.17 CHG 1

12/22/77

**Cancellation**

**Date:** Retain

MEDIUM-INTENSITY LIGHTING SYSTEM WITH  
**SUBJ:** RUNWAY ALIGNMENT INDICATOR LIGHTS

Order 6850.17, Medium-Intensity Lighting System with Runway Alignment Indicator Lights, dated October 27, 1977, was printed without the dates for the drawings. This change adds the dates.

PAGE CONTROL CHART

Remove Pages	Dated	Insert Pages	Dated
1 and 2	10/27/77	1 and 2	12/22/77

  
WARREN C. SHARP  
Director, Airway Facilities Service

**Distribution:** WAF/AP-3; WFS/AT/LG/RD-2; RAF/AS/AT/FS-3  
(except AEU); NC-1

**Initiated By:**  
AAF-560



# ORDER

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

6850.17 CHG 1

10/27/77

(Page revised by  
CHG 1 dated 12/22/77)

MEDIUM-INTENSITY LIGHTING SYSTEM WITH  
**SUBJ:** RUNWAY ALIGNMENT INDICATOR LIGHTS

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1. PURPOSE. This order directs the use of the following standard drawings and specification FAA-C-2626 to establish the medium-intensity approach lighting system with runway alignment indicator lights (MALSR) using components furnished under Contract DOT-FATQWA-3874.

<u>Number</u>	<u>Date</u>	<u>Title</u>
		<u>Medium-Intensity Approach Lighting System</u> <u>with Runway Alignment Indicator Lights</u>
* D-6137-0	11/30/77	0'-0" to 40'-0" Mounting Height Title
D-6137-1	11/30/77	Typical Plot Layout, Runway Number, Airport Name, City, State
D-6137-2	11/30/77	System Layout and Wiring Diagram
D-6137-3	11/30/77	S-Light Bar, 0'-0" to 6'-0" Maximum Mounting Height; Electrical Details
D-6137-4	11/30/77	Low-Impact Resistance Structure; 6'-0" to 40'-0" Mounting Height, Electrical Details
D-6137-5	11/30/77	40'-0" to 128'-0" Mounting Height, Wiring of Low-Impact Resistance Assembly
D-6137-6	11/30/77	Runway Alignment Indicator Light Sequenced Flasher, 0'-0" to 40'-0" Mounting Height, Electrical Details
D-6137-7	11/30/77	S-Light Bar and Sequenced Flasher; 6'-0" to 40'-0" Mounting Height, Foundations
D-6137-8	11/30/77	Power and Control Station Equipment Details
D-6137-9	11/30/77	Miscellaneous Details *

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(except AEU); NC-1

Initiated By: AAF-560

12/22/77

<u>Number</u>	<u>Date</u>	<u>Title</u>	
* D-6137-10	11/30/77	Low-Impact Resistance Tower, Structural Erection and Details	
D-6137-11	11/30/77	Low-Impact Resistance Tower; 6'-0" to 40'-0" Mounting Height; Light Bar and Mounting Head	*
D-6027-1	11/3/76	Remote Radio Control, Interface Unit, Electrical Wiring Diagram	
D-6027-2	11/3/76	Remote Radio Control, Interface Unit, Assembly Unit	

2 DISTRIBUTION. This order is distributed to branch level in Airway Facilities Service and Office of Airports Programs and to division level in Flight Standards, Air Traffic, Logistics, and Systems Research and Development Services in Washington headquarters; branch level in Airway Facilities Airports, Air Traffic, and Flight Standards divisions in the regions (except AEU); and to the Director, NAFEC and the Aeronautical Center.

3. BACKGROUND. Drawings D-6137-0 through D-6137-11, and D-6027-1 through D-6027-2 are issued to provide the proper installation of MALSR equipment manufactured by Connecticut International Corporation (Sepco Division) under Contract DOT-FATQWA-3874 for MALSR frangible system mounting height of 0 to 128'-0". Tower structures of 6' to 40' will be procured by the regions, using FAA Specification FAA-E-2604. For tower structures 40' and above, new systems performance requirements are being developed.

4 APPLICATION. Drawing D-6137-0 is a typical title sheet for project drawings. Drawing D-6137-1 shows the typical site layout plan and profile for a MALSR system. This drawing is to be used as a guide and checklist for information that is required on the project site layout drawings. The access road and turnaround, which shall be constructed in accordance with access road drawings D-5980-1 and -2, are optional and should be site-determined by regional requirements. Actual siting of the system shall be in accordance with Order 6850.2, Visual Guidance Lighting Systems. Drawings D-6137-2 through -11 have been developed as standard construction and electrical installation drawings for the MALSR lighting system with low-impact resistance supporting structure as specified in Specification FAA-E-2604 and installed in accordance with Specification FAA-C-2626. Foundation designs for the five-lamp bars, sequenced flashers, and power control station supports are based on a minimum safe soil-bearing pressure of 3,000 psf and lateral soil pressure of 200 psf per foot of depth below grade for applied loading